

## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1-11. (canceled)

Claim 12. (currently amended) A purified nucleic acid molecule encoding a coccidian CKI protein, wherein said nucleic acid molecule comprises a nucleotide sequence selected from the group consisting of:

(a) a nucleotide sequence which encodes ~~an~~ the amino acid sequence as set forth in SEQ ID NO:2;

(b) a nucleotide sequence which hybridizes under conditions of ~~moderate to~~ high stringency to the complement of a second nucleic acid molecule which encodes an amino acid sequence of SEQ ID NO:2, wherein high stringency conditions are 0.1X SSC at about 68°C; and,

(c) a nucleotide sequence which hybridizes under conditions of moderate stringency to the complement of a second nucleic acid molecule of SEQ ID NO:1, wherein moderate stringency conditions are 0.2X SSC/1% SDS at about 42°C;

~~wherein said nucleic acid molecule encodes~~ the nucleotide sequences of part (b) and part (c) encode an amino acid sequence that has at least 80% identity to the amino acid sequence of SEQ ID NO:2.

Claim 13. (currently amended) An expression vector for expressing a coccidian CKI protein in a recombinant host cell wherein said expression vector comprises ~~a~~ the nucleic acid molecule of claim 12.

Claim 14. (original) A recombinant host cell which expresses a coccidian CKI protein wherein said host cell contains the expression vector of claim 13.

Claim 15. (currently amended) A process of expressing a coccidian CKI protein in a recombinant host cell, comprising:

(a) transfecting the expression vector of claim 13 in a suitable host cell; and,

(b) culturing the host ~~cells~~ cell of step (a) under conditions which allow expression of said coccidian CKI protein from said expression vector.

Claim 16. (currently amended) An isolated nucleic acid molecule encoding a coccidian CKI protein, wherein said nucleic acid molecule comprises ~~a~~ the nucleotide sequence of SEQ ID NO:1.

Claim 17. (currently amended) An expression vector for expressing a coccidian protein in a recombinant cell wherein said expression vector comprises ~~a~~ the nucleic acid molecule of claim 16.

Claim 18. (original) A recombinant host cell which expresses a coccidian CKI protein wherein said host cell contains the expression vector of claim 17.

Claim 19. (currently amended) A process of expressing a coccidian CKI protein in a recombinant host cell, comprising:

- (a) transfecting the expression vector of claim 17 into a suitable host cell; and
- (b) culturing the host ~~cells~~ cell of step (a) under conditions which allow expression of said coccidian CKI protein from said expression vector.

Claim 20-37. (canceled)

Claim 38. (currently amended) A purified nucleic acid molecule of claim 12, wherein said nucleic acid molecule comprises a nucleotide sequence which encodes ~~an~~ the amino acid sequence as set forth in SEQ ID NO:2.